

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problems Mailbox.**

COMPARISON OF WAVELENGTH DISTRIBUTION OF UV SOURCES

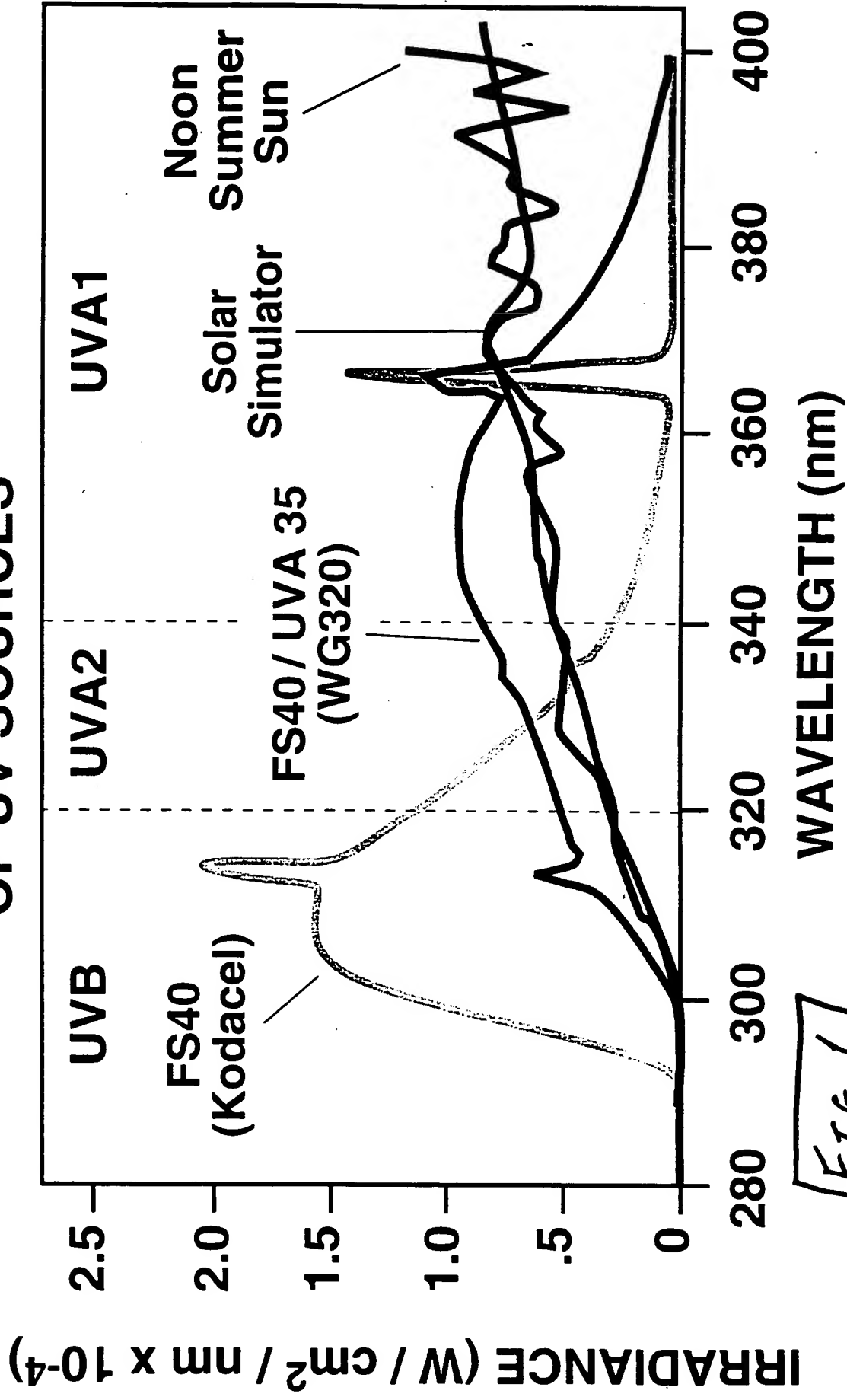


Fig. 1

SOLAR SIMULATED LIGHT INDUCES cJUN IN HUMAN SKIN *IN VIVO*

No UV

.1MED

.5MED



1MED

2MED



FIG. 28 52500660

SOLAR SIMULATED LIGHT ACTIVATES NF- κ B IN HUMAN SKIN *IN VIVO*

No UV

.1MED

.2MED



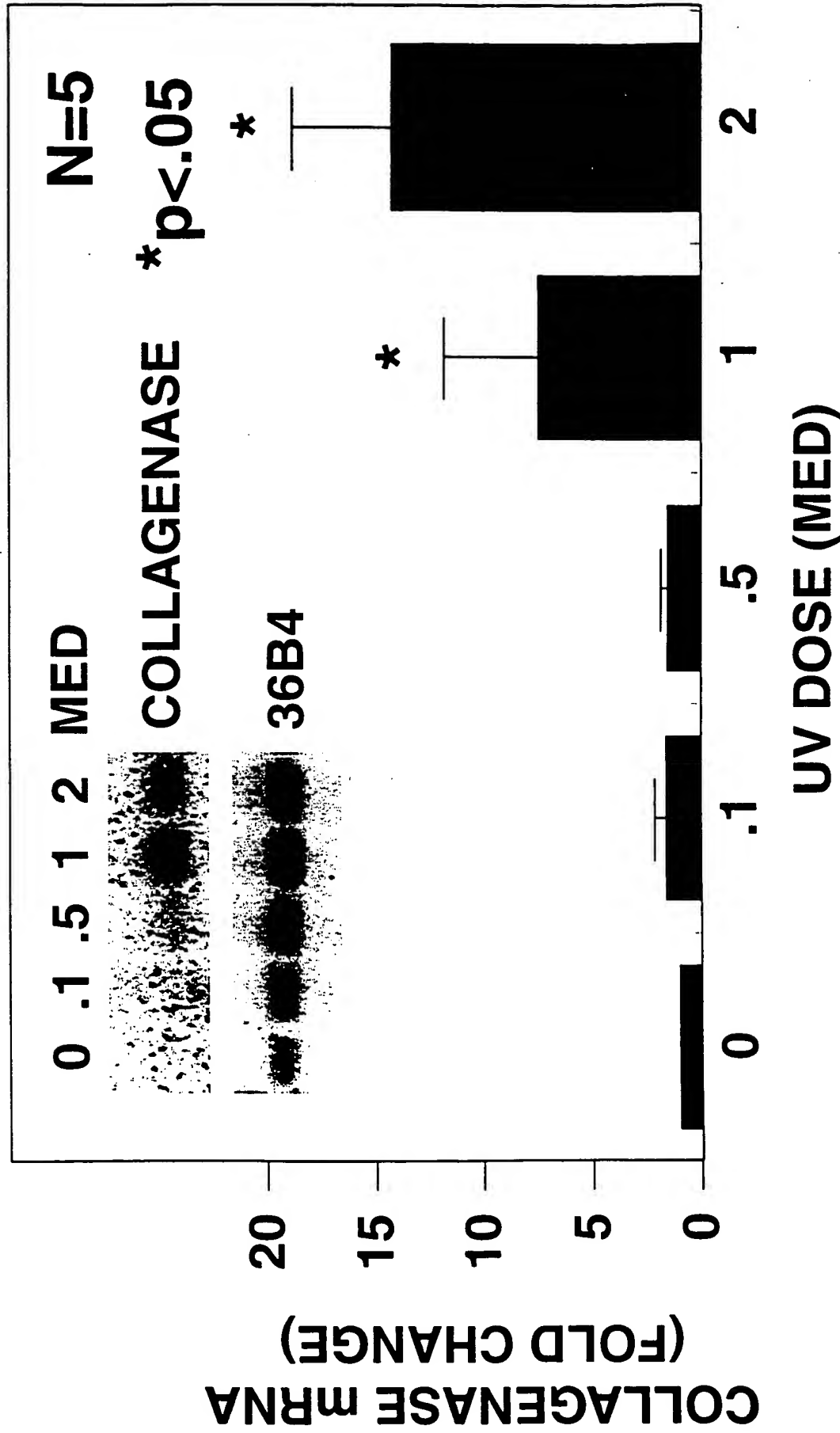
1MED

2MED



FIG. 3A

SOLAR-SIMULATED UV INDUCTION OF COLLAGENASE IN HUMAN SKIN *IN VIVO*



DOSE DEPENDENCE FOR SOLAR-STIMULATED UV INDUCTION OF 92kDa GELATINASE ACTIVITY IN HUMAN SKIN *IN VIVO*

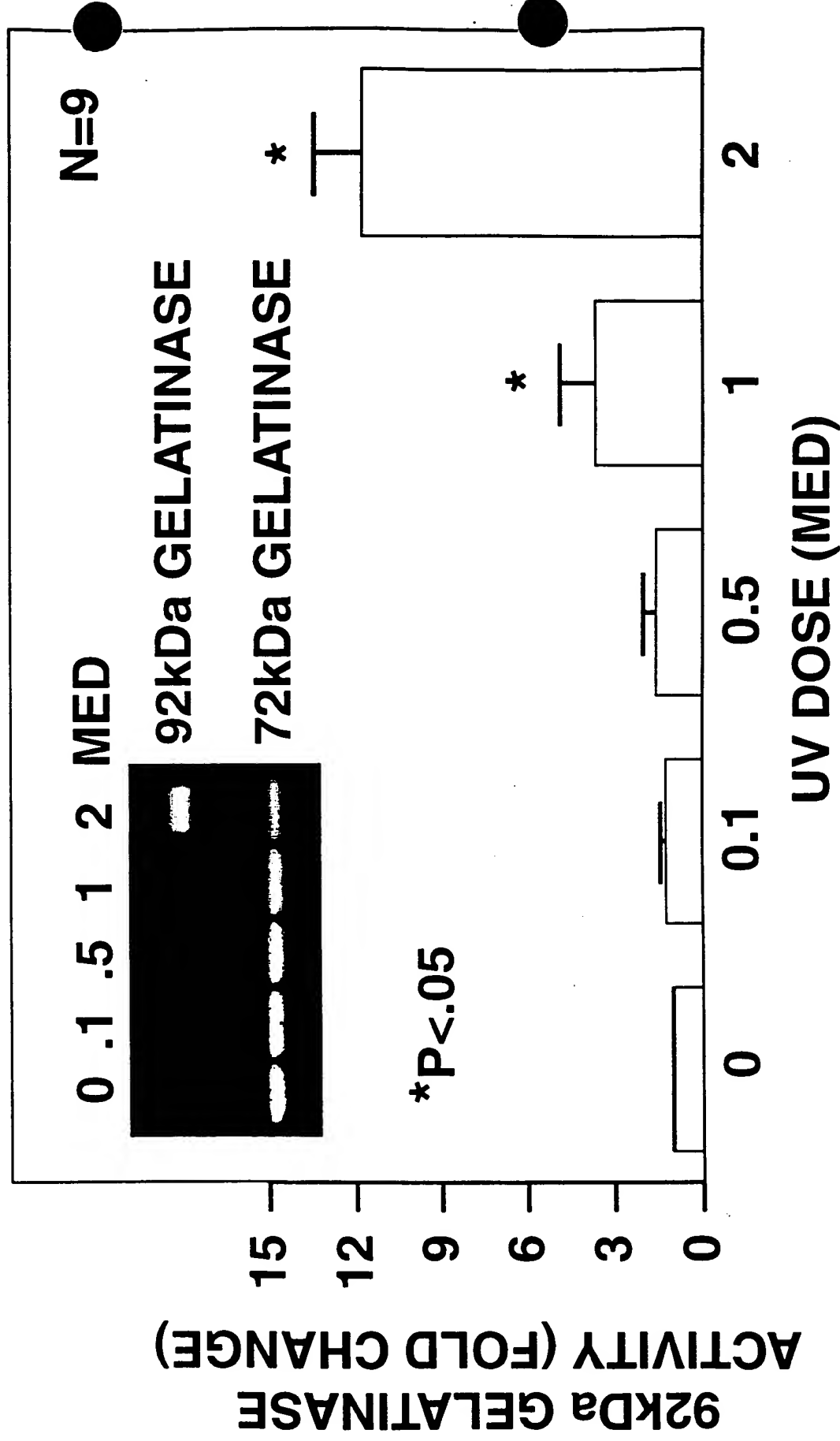
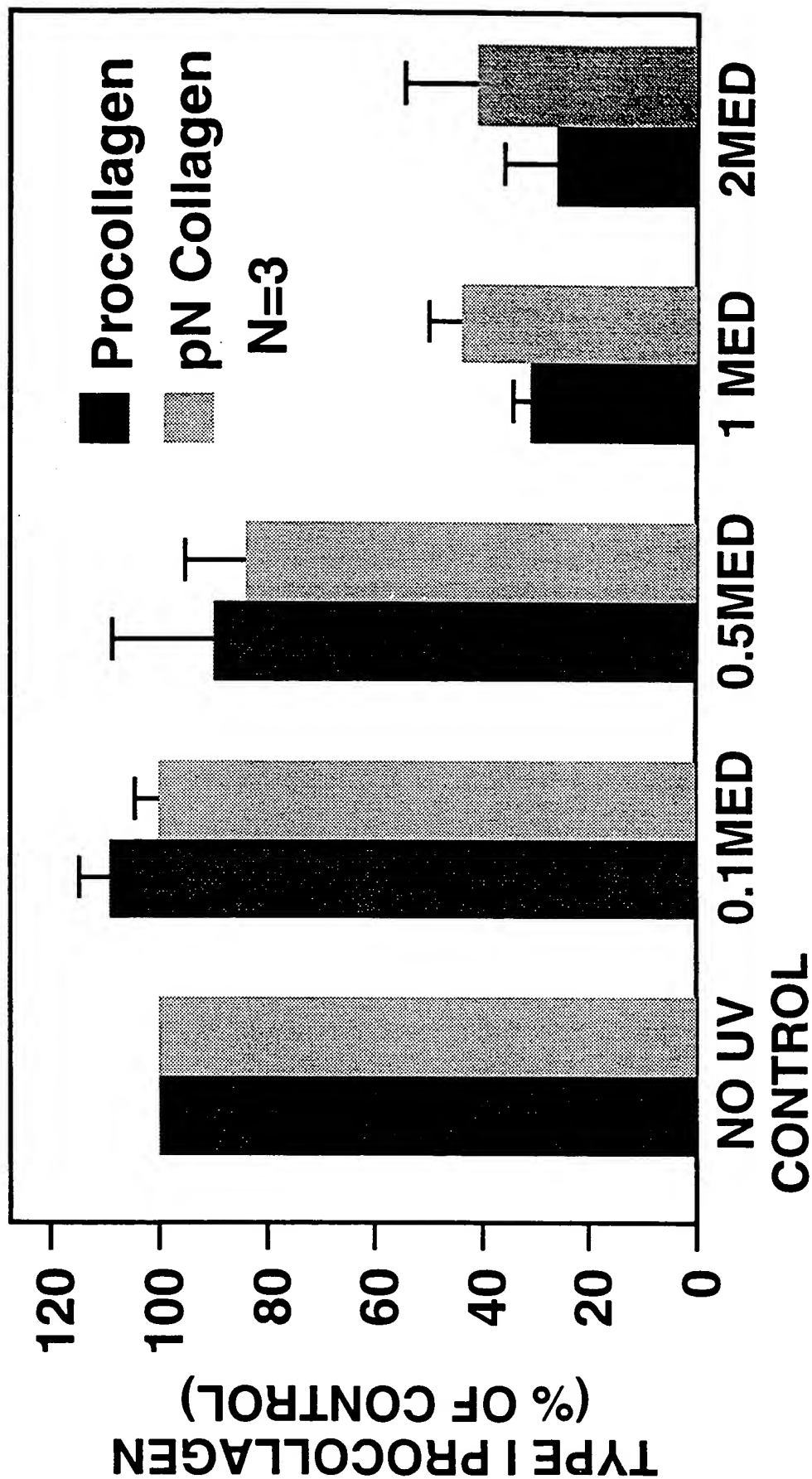


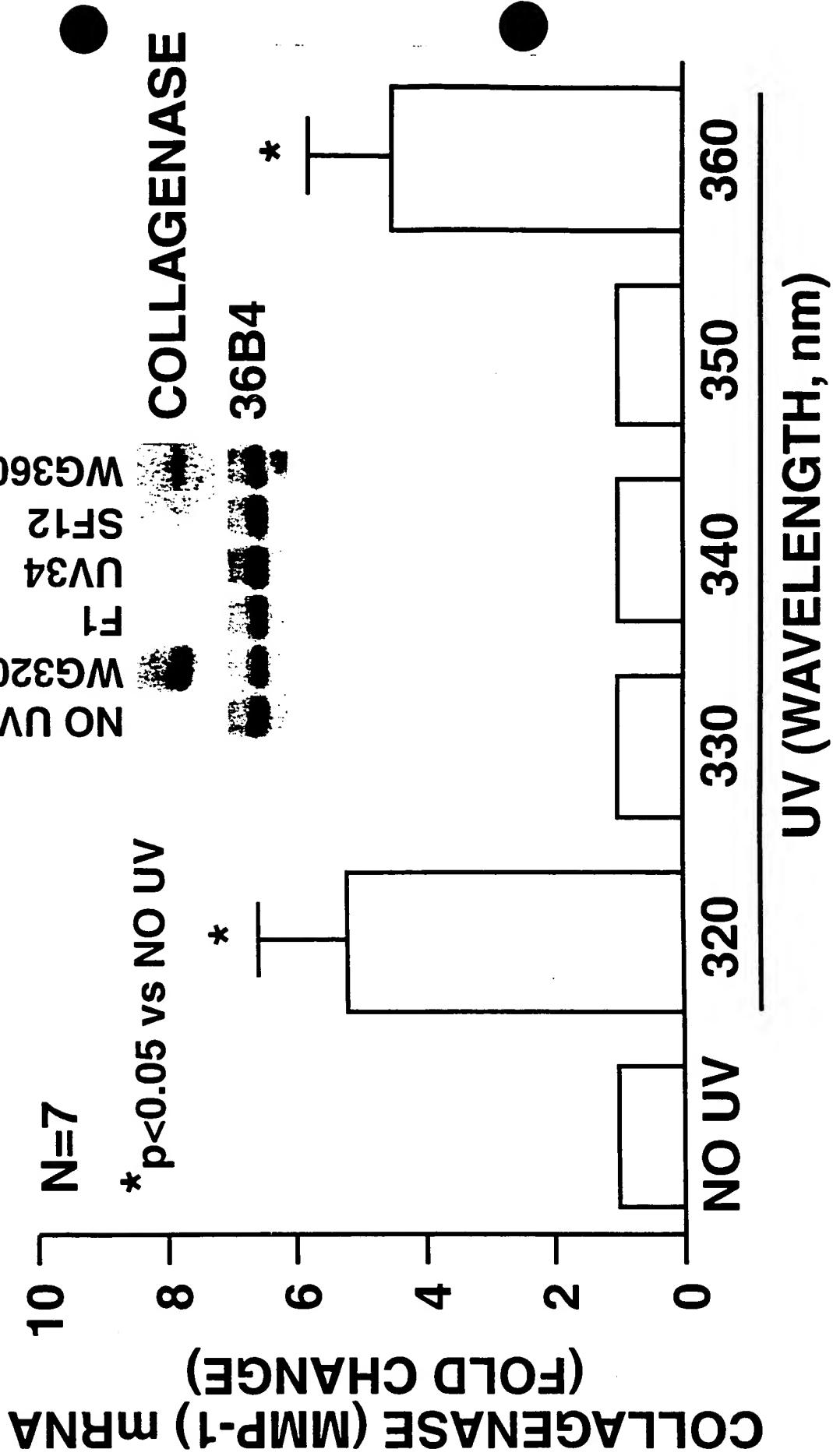
Fig. 3C

SOLAR SIMULATED UV REDUCES TYPE I PROCOLLAGEN IN HUMAN SKIN *IN VIVO*

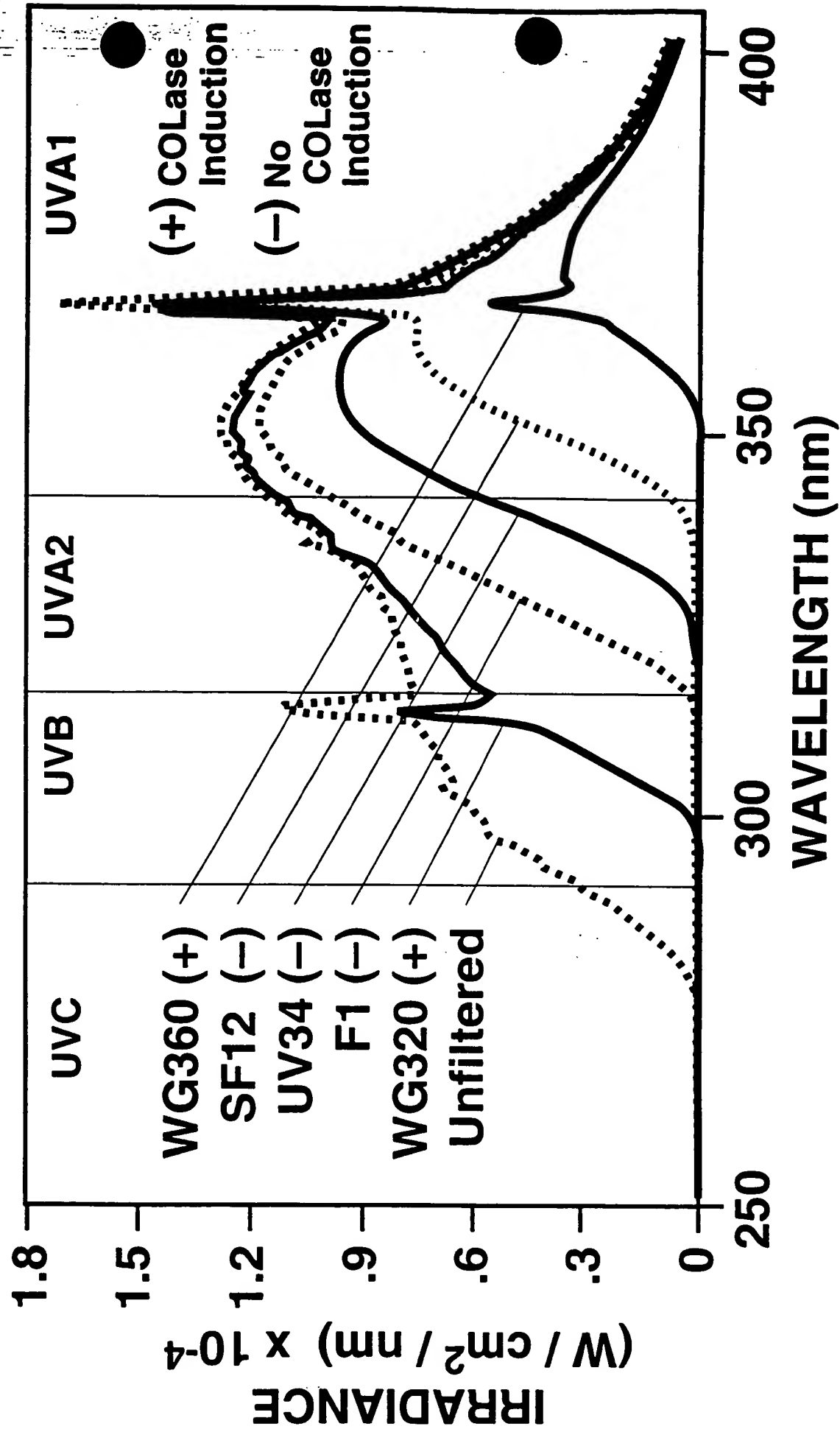


UVB & LONG UVA INDUCE COLLAGENASE (MMP-1) mRNA IN HUMAN SKIN *IN VIVO*

Fig. 4A



100



**SPECTRAL OUTPUT OF SOLAR SIMULATOR WITH MONOCHROMATOR:
DETERMINING WHAT WAVELENGTHS CAUSE PHOTOAGING**

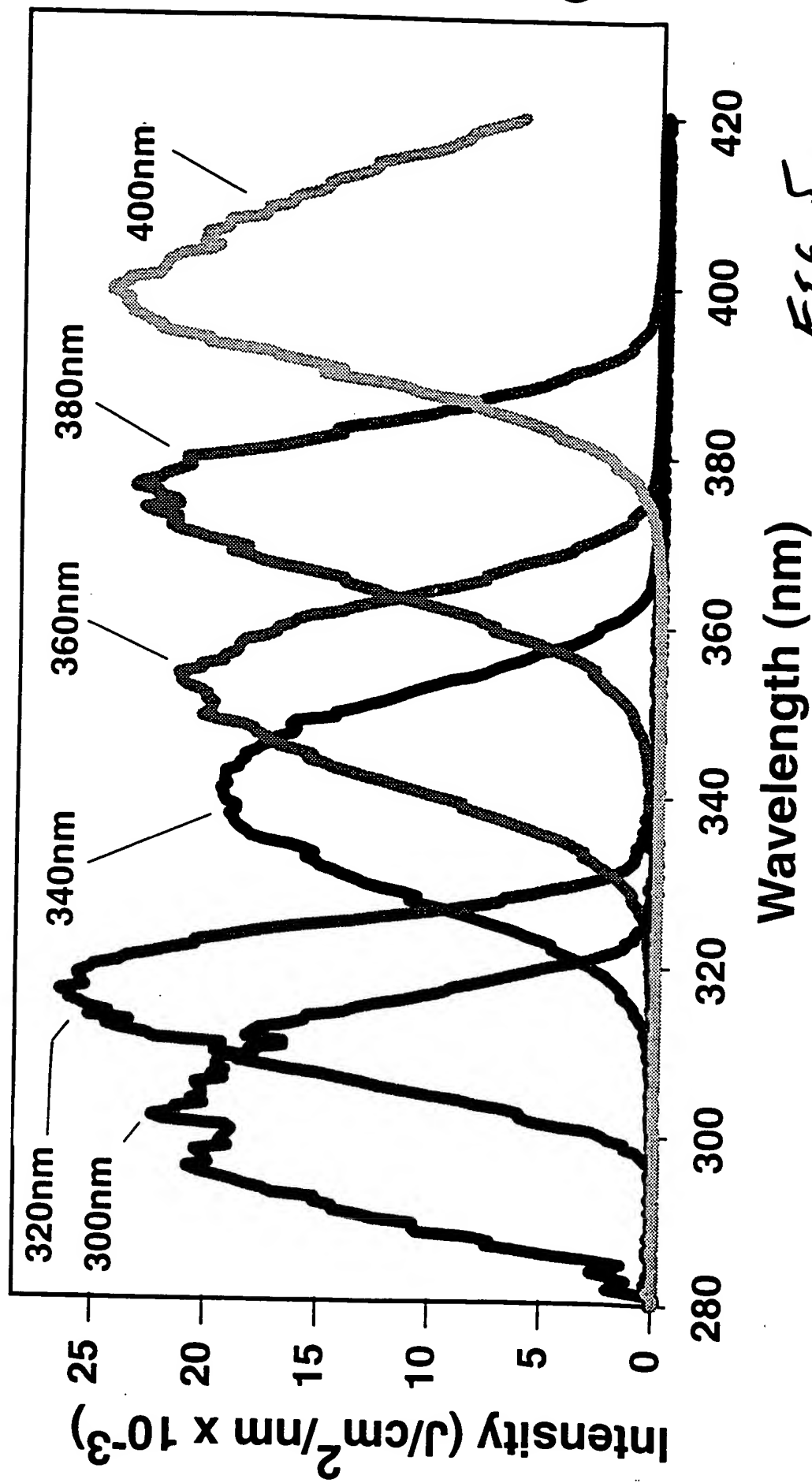
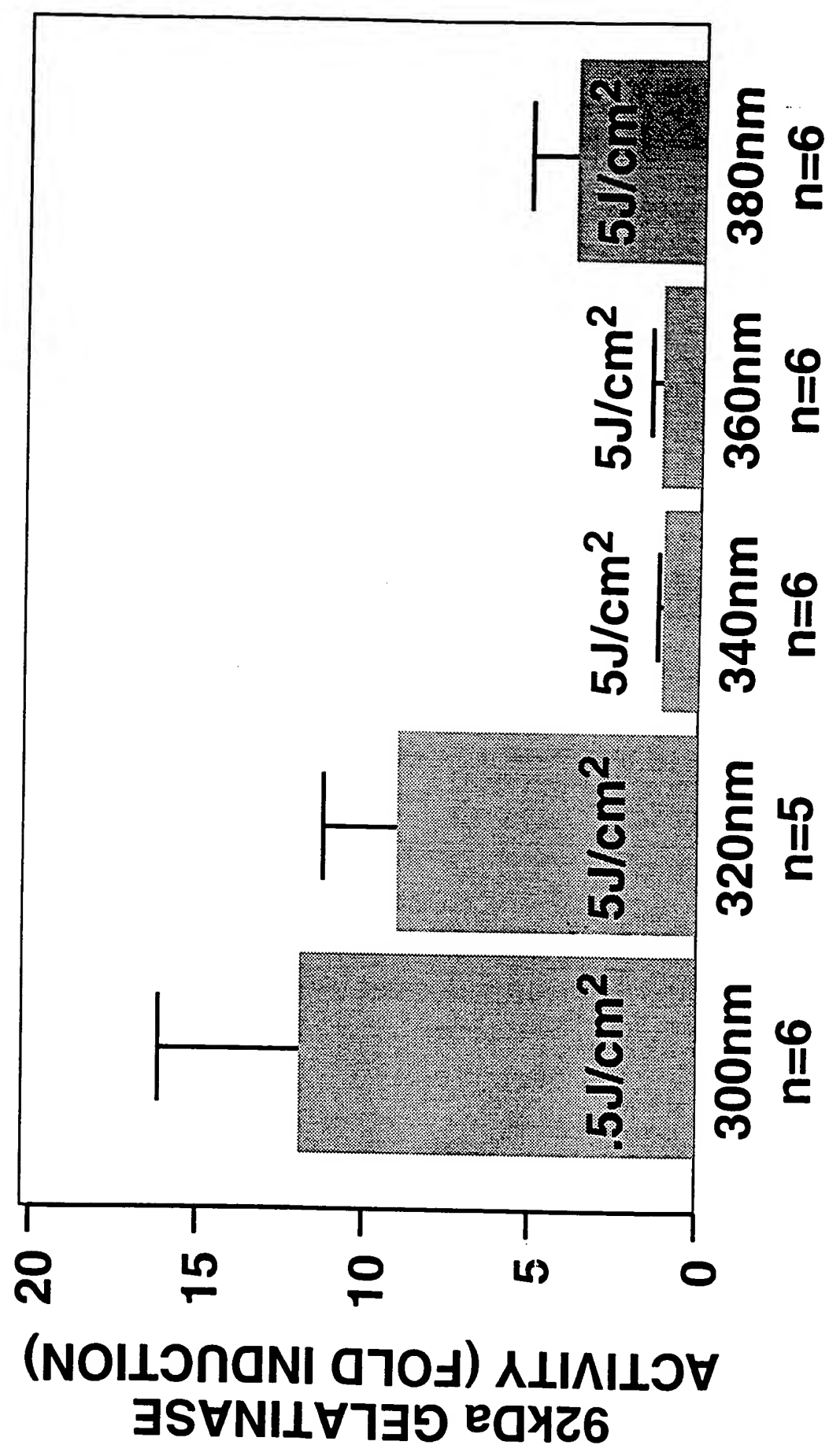


Fig. 5

Fig. 6A

92kDa GELATINASE ACTIVITY INDUCED BY UVB (300-320nm)
& LONG WAVELENGTH UVA1 (380nm): MONOCHROMATOR



UV ACTION SPECTRUM FOR INDUCTION OF 92kDa GELATINASE (MMP-9) ACTIVITY

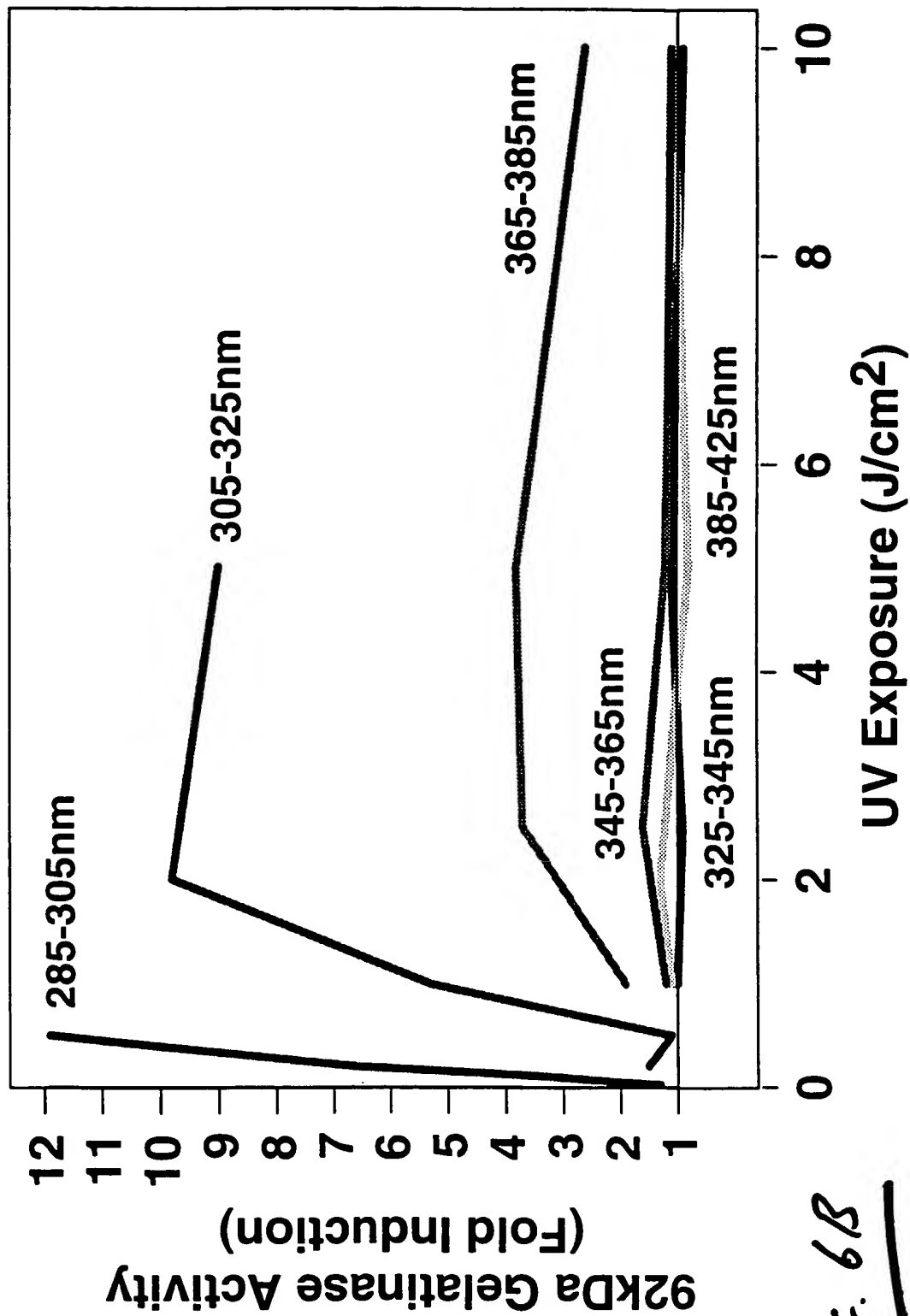


FIG. 6B

Fig. 6C

**RELATIVE EFFECTIVENESS OF UV WAVELENGTH TO INDUCE
92 kDa GELATINASE ACTIVITY IN HUMAN SKIN *IN VIVO***

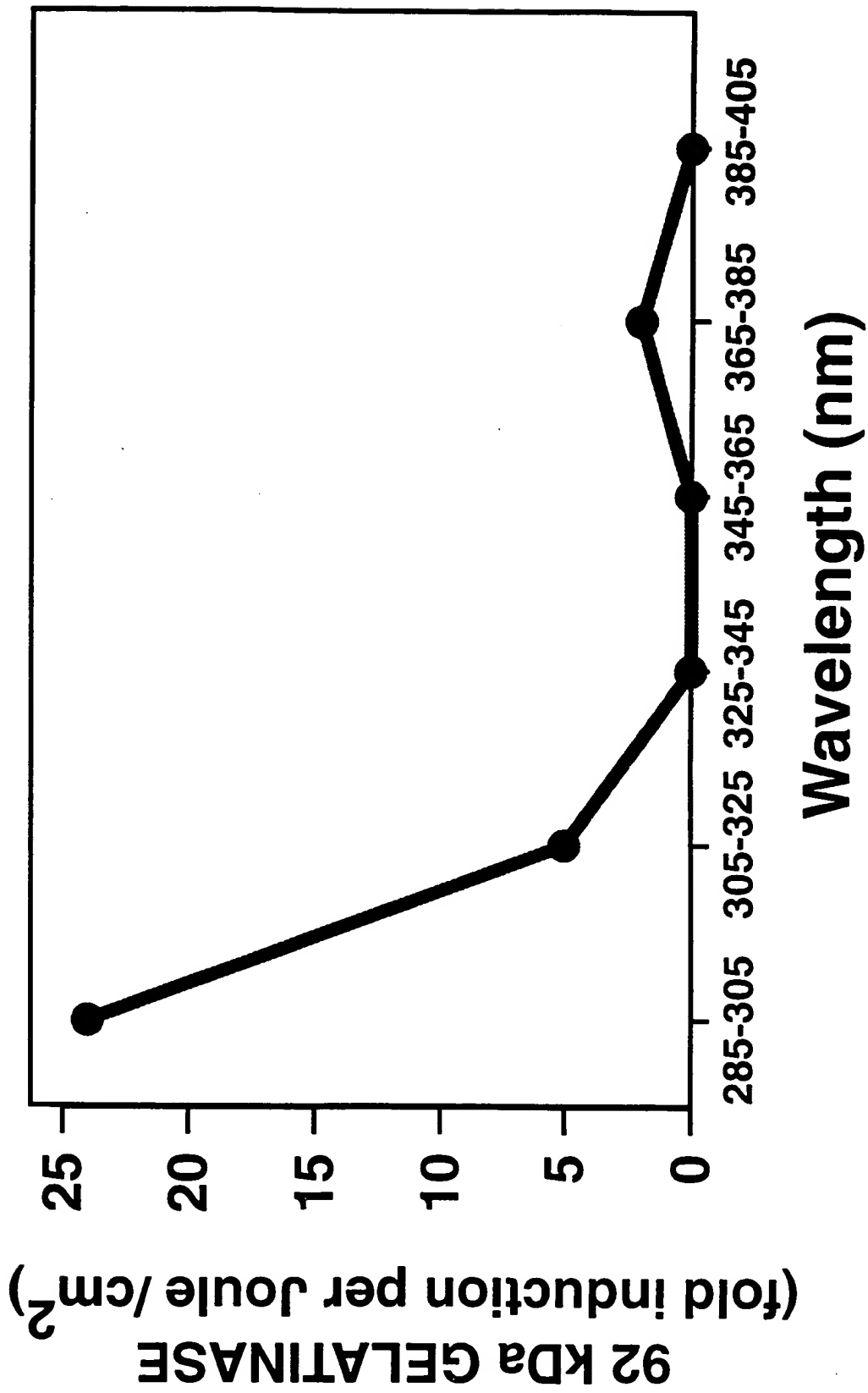


Fig. 7

**EFFECTIVE CONTRIBUTION OF UV WAVELENGTHS
TO INDUCTION OF 92kDa GELATINASE ACTIVITY
BY SOLAR-SIMULATED UV IN HUMAN SKIN *IN VIVO***

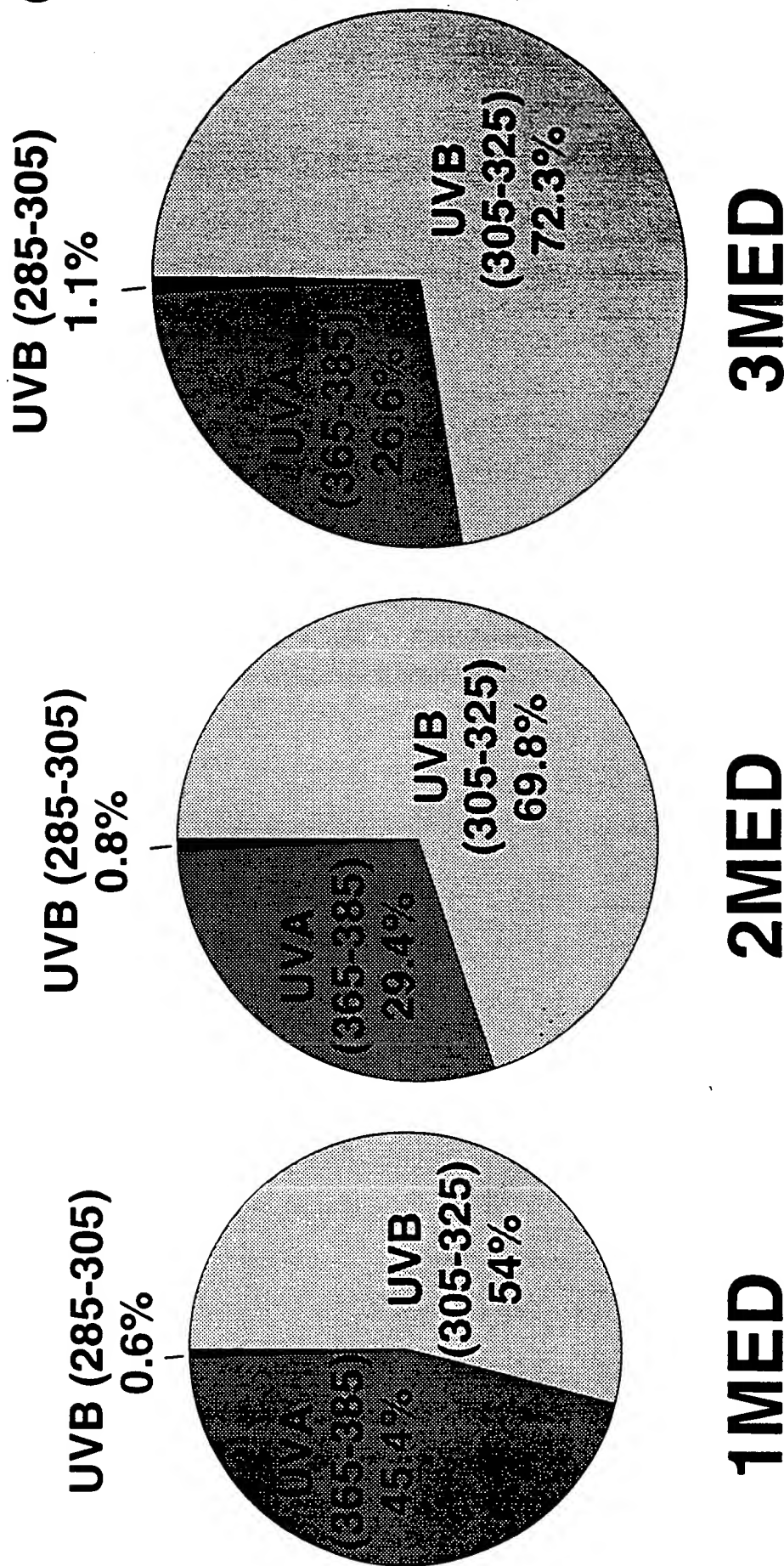


Fig. 8

SUNLIGHT VARIABILITY

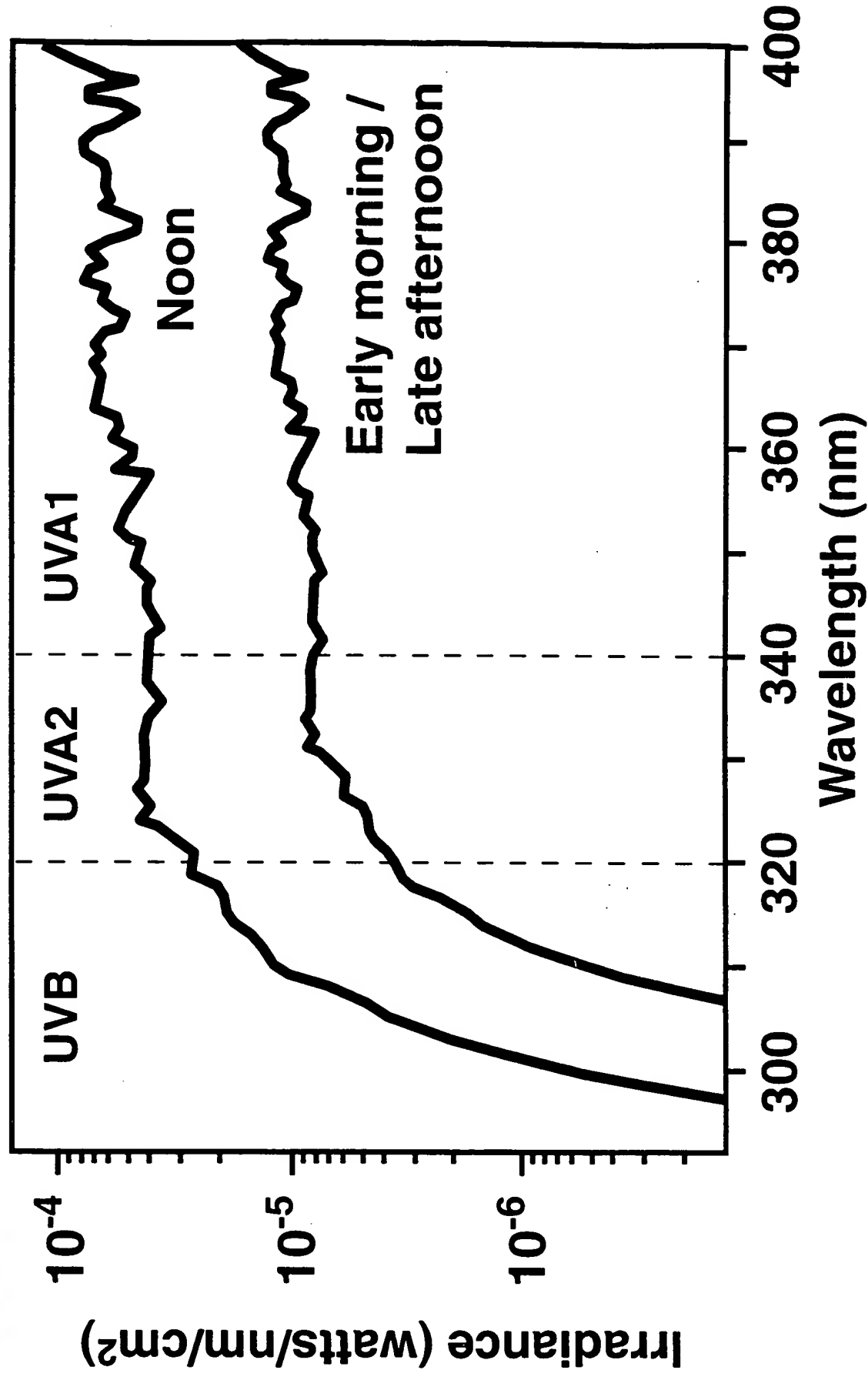


Fig. 9

**ABSORPTION SPECTRA OF PARSOL 1789 & MCX
IN ABSOLUTE ETHANOL**

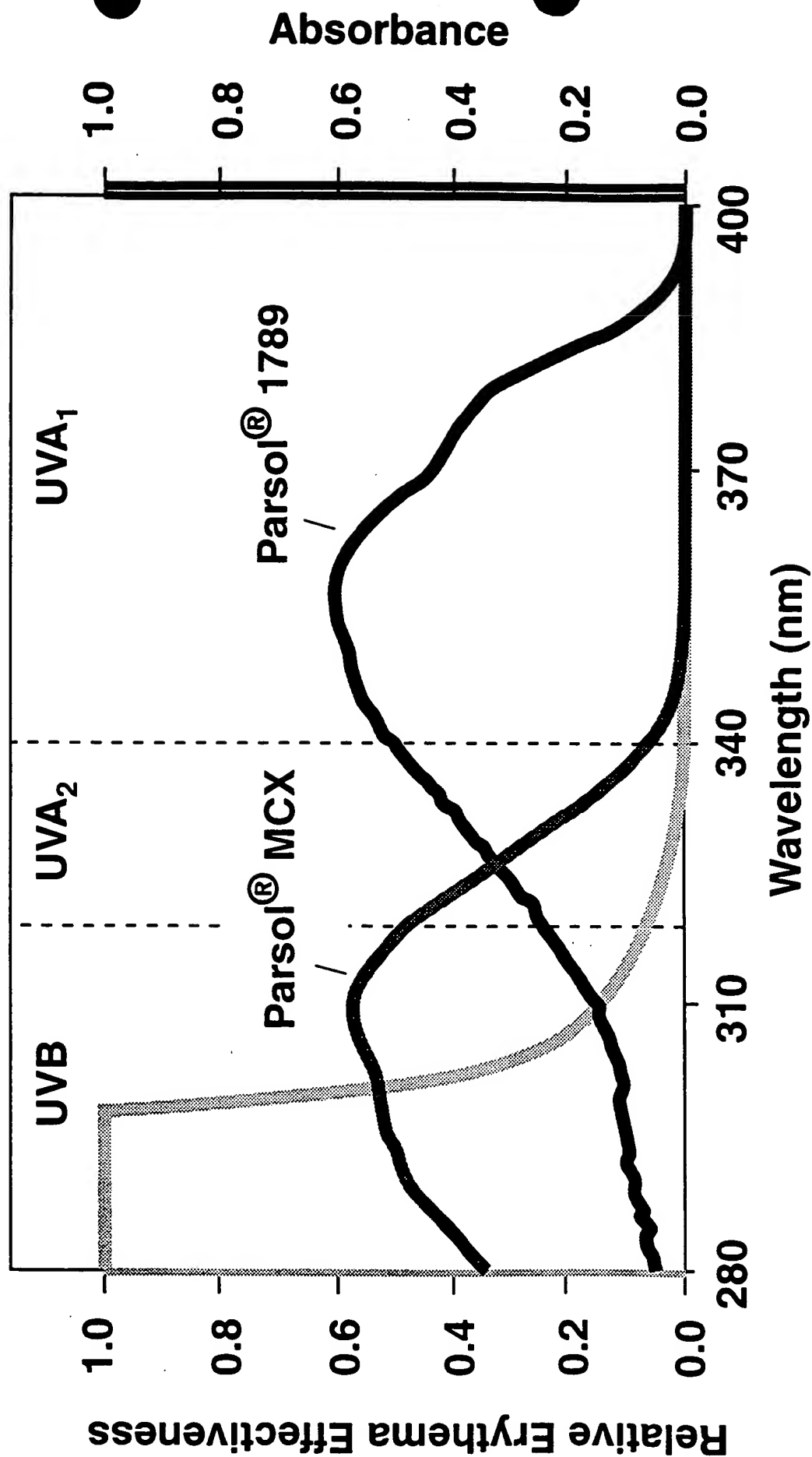
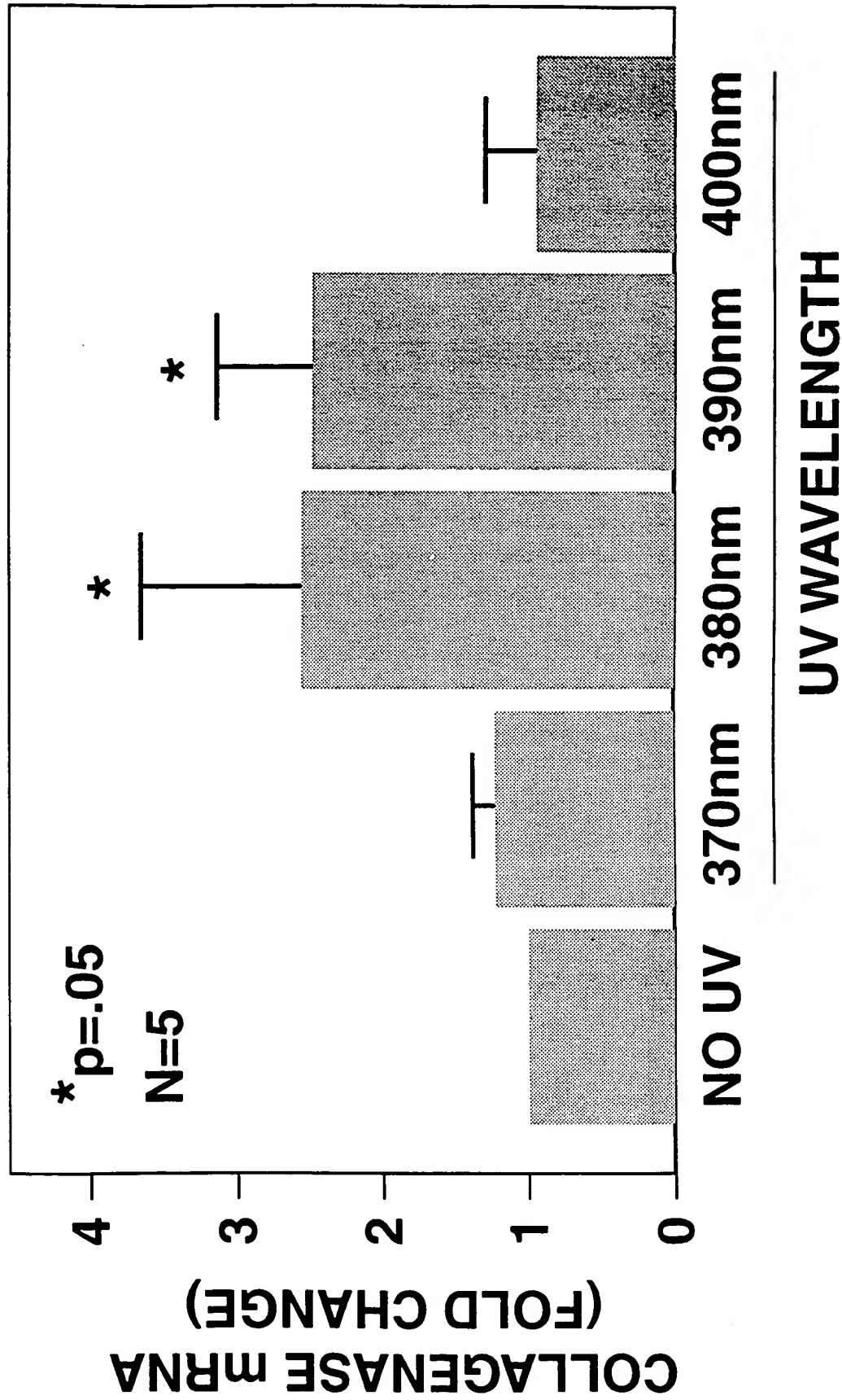


Fig. 10

UVA1 WAVELENGTH DEPENDENCE FOR INDUCTION OF COLLAGENASE mRNA IN HUMAN SKIN *IN VIVO*



UVB/A2 Wavelength Dependence for Induction of Collagenase mRNA

in Human skin in vivo

NO UV 300 310 320 330 340 350 360
 3.53E+021.05E+056.70E+042.88E+022.84E+025.05E+023.80E+023.09E+02 mean
 1.31E+022.72E+048.96E+046.34E+015.71E+012.86E+021.13E+021.38E+02 sem

Fig. 11

